

How to connect a trough-type cable tray



Overview

Trough Type Cable Tray Guide: Load, Installation & BenefitsA professional guide to trough type cable trays. Explore load capacity charts, installation guid.

Key Takeaways

Connecting a trough-type cable tray involves aligning sections, using splice plates or couplers, securing with bolts and washers, and ensuring proper support and grounding.

Step-by-

Step Connection Process1.

Prepare the Tray Sections

Inspect the ends of the trough trays to ensure they are clean and free of burrs. For solid or perforated trays, measure and cut to the required length if necessary, using appropriate tools to maintain straight edges and avoid damage to the tray or cables.

2.

Align the Tray Sections

Place the tray sections end-to-end on the supports or hangers. Ensure the side rails are level and the bottom is aligned to prevent cable sag or misalignment. 3.



Use Splice Plates or Couplers

For standard connections, use splice plates or a multifunctional coupler to join the tray ends. Position the splice plate inside or outside the tray edges, depending on the manufacturer's instructions, and align the bolt holes. For custom bends, reducers, or tees, use the appropriate coupler to maintain structural integrity and continuity.

4. Secure with Bolts and Washers Drill holes if not pre-punched, typically 3/8" or 7/16" diameter depending on tray type. Insert bolts with flat washers through the tray and splice plate, then tighten into spring nuts or threaded supports.

Ensure all bolts are snug but avoid over-tightening, which could deform the tray. 5.

Install Supports and Hangers

Use center hangers, trapeze supports, or wall brackets to anchor the tray securely. Maintain recommended support spacing according to tray width and load capacity to prevent sagging or structural failure. For horizontal runs, ensure the tray is level; for vertical risers, use pivot connectors if needed.

6.

Ensure Electrical Continuity and Safety

Check that all tray sections are electrically continuous if grounding is required. Install covers if specified, and secure hold-down clamps to protect cables from dust, moisture, or mechanical damage. 7.

Final Inspection

Verify alignment, bolt tightness, and support spacing. Ensure that cable exit points, drop-outs, and fittings are correctly installed for safe cable routing. By following these steps, a trough-type cable tray can be securely connected, providing a safe, organized, and accessible pathway for electrical and data cables in industrial or commercial installations.

Article Content

Trough Type Cable Tray Guide: Load, Installation & Benefits

A professional guide to trough type cable trays. Explore load capacity charts, installation guidelines, advantages over ladder type, and key selection criteria for your project.

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This installation guide provides comprehensive instructions for the assembly, cutting, and installation of the Trough (P31) cable tray system.

Cable Tray / Trough Tray INSTALLATION

) To install: place 1 part of cover clamp around trough tray cover and tray assembly. Place 2nd part around opposite end of Trough Tray, align clamp holes and install hardware.

Cable Tray Installation

Learn everything about cable tray installation with our complete guide. Discover types, steps, and safety tips for efficient electrical cable management.

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